PENTARCH PETROLEUM

25938 GARDNER STREET, LOMA LINDA , CA 92354

PHONE: 909.440.9158

FAX: 909.796.5121 Email: stephenfilippi@roadrunner.com RECEW

JUN 0 5 2015

RWQCB-CVH FRESNO, CALIF

June 3, 2015

Ronald Holcomb Central Valley Water Board 1685 E Street Fresno, CA 93706

Subject: Technical Report—California Water Code Directive

Ron,

Enclosed is the Technical Report required by California Water Code Section 13267. This report includes the hardcopy of all water analysis done by Zalco Laboratories. The electronic copy was sent to Doug Patteson at doug.patteson@waterboards.ca.gov. The sample was collected by a Zalco representative at the waste water tank which feeds directly into sump #1. This sump (pond) is the upstream sump connected in a series to the other 3 sumps without any other source of inflow. As noted in the case narrative from Zalco a portion of this waste water is used by us (Filippi family) for irrigating approximately 20 acres of farm land which is in the boundary of the Pentarch Petroleum lease. This practice started in approximately 2012 with verbal approval from the Water Board.

The following items are included: 1) plot plan which indicates the Pentarch Petroleum lease showing the approx. location of the tank farm and sumps as well as lease parcel numbers at the bottom of the page. 2) an aerial view of the Pentarch Petroleum lease boundaries with the LAT and LONG coordinates, along with another view of the tank farm and sumps. 3) an aerial view of the sumps (ponds) along with the location of the waste water tank. I have included the waste water tank in this report because this tank captures the residual oil that would normally be sent out to the sumps and returns it to the tank facility for processing. Included in this aerial are the numbered sumps, the dimensions (L x W x D), the duration of discharge, and the volume of waste water per year. 4) the signed Certification Statement to the Central Water Board.

If you have any questions please do not hesitate to call or email me at the information provided above.

Thanks

Stephen Filippi

PENTARCH PETROLEUM

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PHONE: 909.440.9158 FAX: 909.796.5121 Email: stephenfilippi@roadrunner.com

June 3, 2015

Ronald Holcomb Central Valley Water Board 1685 E Street Fresno, CA 93706

Subject: Certification Statement—California Water Code Directive

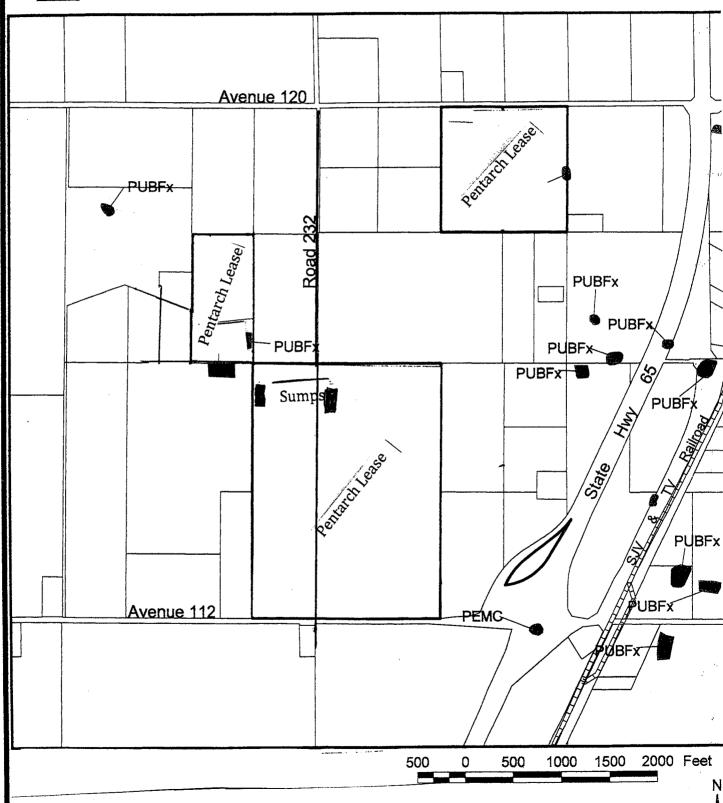
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Stephen A. Filippi
Pentarch Petroleum



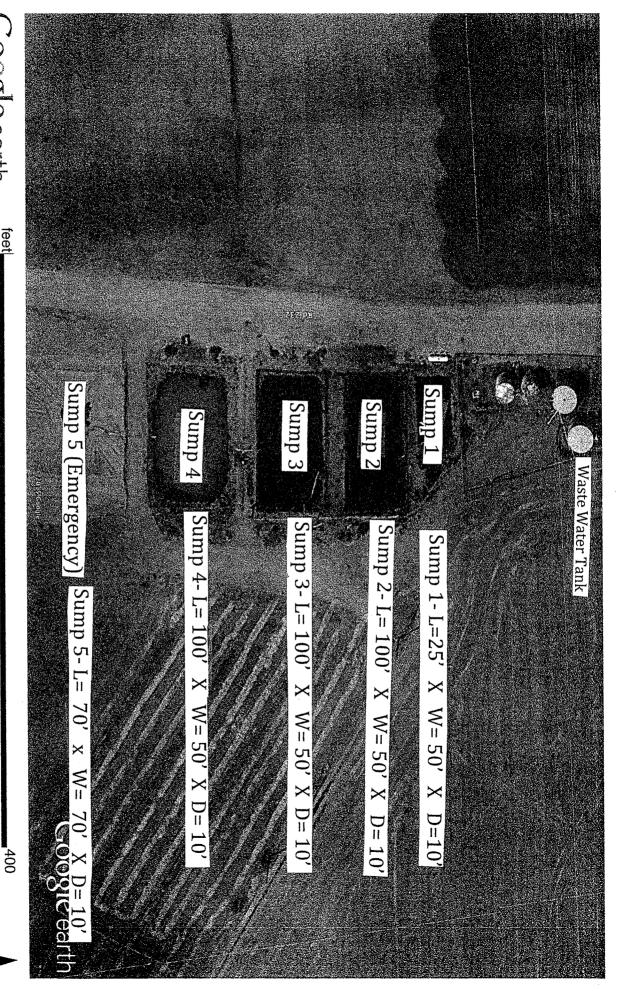
PENTARCH PETROLEUM LEASE





Parcel # - 302350005, 302350006, 302360001, 302360002, 302360003, 302360004, 302360007, 302370009

302370010, 302380008



Google earth

meters feet,

Duration of Discharge – 12 months/year

Volume of Wastewater-+/- 1,200,000 Bbl/year

Google earth feet km RD 232 AVE 112 N35 59'42 Tank Farm Sumps Hesse Ave AVE 116 4000

PENTARCH PETROLEUM LEASE BOUNDARIES

LAT= N 35 59' 47.04" |LONG= W 119 03' 18"



Analytical & Consulting Services

4309 Armour Avenue Bakersfield, California 93308

(dlägnui).

(661) 395-0539 FAX (661) 395-3069

May 7, 2015

Steve Filippi Pentarch Petroleum 25938 Gardener Loma Linda, CA 92354

TEL: (909) 440-9158 FAX: (909) 796-5121

Project ID: RE: 1504168

Dear Steve Filippi:

Zalco Laboratories, Inc. received 1 samples on 4/15/2015 for the analyses presented in the following report.

We appreciate your business and look forward to serving you in the future. Please feel free to call our office if you have any questions regarding these test results.

Sincerely,

Juan Magana Project Manager

CC:



Analytical & Consulting Services

4309 Armour Avenue Bakersfield, California 93308 (661) 395-0539 FAX (661) 395-3069

Case Narrative

1504168-01 Per client water sold as agriculture water.

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative

The results In this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Pentarch Petroleum 25938 Gardener Loma Linda, CA 92354 Project: RWQCB Oilfield Ponds - 2Q2015

Project #:

Attention: Steve Filippi

Work Order No.: 1504168

Reported: 05/07/2015

Received: 04/15/2015 12:15

Lab Sample ID: 1504168-01

Client Sample ID: Pentarch Lease Pond #1

Collected By: Steve Filippi

Date Collected: 4/15/2015 10:15:00AM

						Date	Date	
Analyte	Results	PQL	~ · · · · · · · · · · · · · · · · · · ·	Units	Flag Method	Prepared	Analyzed	Init.
Alkalinity								
Total Alkalinity	180	10		mg/L	SM 2320B	4/15/15	4/15/15	SAM
Bicarbonate (HCO3)	180	10		mg/L	SM 2320B	4/15/15	4/15/15	SAM
Carbonale (CO3)	<10	10		mg/L	SM 2320B	4/15/15	4/15/15	SAM
Hydroxide (OH)	<10	10		mg/L	SM 2320B	4/15/15	4/15/15	SAM
CAM, Toxicity (17 Met	als)		TTLC Limits					
Antimony	<0.20	0.20	500	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Arsenic	<0.020	0.020	500	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Barium	<0.10	0.10	10000	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Beryllium	<0.010	0.010	75	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Cadmium	<0.010	0.010	100	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Chromium	<0.050	0.050	2500	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Cobali	<0.10	0.10	8000	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Copper	<0.050	0.050	2500	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Lead	<0.050	0.050	1000	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Mercury	<0.0020	0.0020	20	mg/L	SW846 7470A	4/23/15	4/23/15	SS
Molybdenum	<0.10	0.10	3500	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Nickel	0,053	0.050	2000	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Selenium	<0.05	0.05	100	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Silver	<0.020	0.020	500	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Thallium	<0.50	0.50	700	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Vanadium	<0.10	0.10	2400	mg/L	SW846 6010B	4/17/15	4/21/15	SS
Zinc	<0.050	0.050	5000	mg/L	SW846 6010B	4/17/15	4/21/15	SS
General Chemistry			MCL Limits					
Fluoride	0.51	0.20	2	mg/L	EPA 300.0	4/15/15	4/15/15	MSS
Nitrate as NO3	<2.00	2.00	45	mg/L	EPA 300.0	4/15/15	4/15/15	MSS
Electrical Conductivity	0.47	0.010		mmhos/cm	SM 2510B	4/17/15	4/17/15	SAM
Bromide	0.18	0.10		mg/L	EPA 300.0	4/15/15	4/15/15	MSS
Chloride	38	2.0		mg/L	EPA 300.0	4/15/15	4/15/15	MSS
pН	7.97	· · ·		pH Units	EPA 150.1	4/15/15	4/15/15	SAM
Sulfate as SO4	8.4	0.50		mg/L	EPA 300.0	4/15/15	4/15/15	MSS
Total Dissolved Solids	300	10		mg/L	SM 2540C	4/17/15	4/17/15	SAM

Hardness

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Pentarch Petroleum

Project: RWQCB Oilfield Ponds - 2Q2015

Work Order No.: 1504168

25938 Gardener

Project #:

Reported: 05/07/2015

Loma Linda, CA 92354

Attention: Steve Filippi

Received: 04/15/2015 12:15

Lab Sample ID: 1504168-01

Collected By: Steve Filippi

Client Sample ID: Pentarch Lease Pond #1

Date Collected: 4/15/2015 10:15:00AM

					Date	Date	
Analyte	Results	PQL	Units	Flag Method	Prepared	Analyzed	Init.
Hardness							
Hardness (as CaCO3)	16	2.0	mg/L	SM 2340B	4/21/15	4/21/15	SS
Metals							
Lithium	<0.10	0.10	mg/L	EPA 200.7	4/21/15	4/22/15	SS
Metals - As Received							
Magnesium	0.64	0.050	mg/L	EPA 200.7	4/21/15	4/21/15	SS
Potassium	0.66	0.50	mg/L	EPA 200.7	4/21/15	4/21/15	SS
Sodium .	100	7.0	mg/L	EPA 200.7	4/21/15	4/21/15	SS
Calcium	5.3	0.050	mg/L	EPA 200.7	4/21/15	4/21/15	SS
fron	<0.10	0.10	mg/L	EPA 200.7	4/21/15	4/21/15	SS
Boron	0.49	0.10	mg/L	EPA 200.7	4/21/15	4/21/15	SS
Barium	<0.10	0.10	mg/L	EPA 200.7	4/21/15	4/21/15	SS
Copper	< 0.050	0.050	mg/L	EPA 200.7	4/21/15	4/21/15	SS
Silica (SiO2)	20	4.0	mg/L	EPA 200.7	4/21/15	4/21/15	SS
Strontium	<0.10	0.10	mg/L	EPA 200.7	4/21/15	4/21/15	SS
Manganese	<0.030	0.030	mg/L	EPA 200.7	4/21/15	4/21/15	SS
Oil & Grease Testing							
TRPH	15.0	5.00	mg/L	EPA 1664	4/29/15	4/29/15	BIG
Semivolatile Organic (Compounds						
Indeno(1,2,3-cd)pyrene	<10.0	10.0	ug/L	SW846 82700	4/17/15	4/20/15	JMM
Naphthalene	<10.0	10.0	ug/L	SW846 82700	4/17/15	4/20/15	JMM
Acenaphthylene	<10.0	10.0	ug/L	SW846 82700	4/17/15	4/20/15	JMM
Acenaphthene	<10.0	10.0	ug/L	SW846 82700	4/17/15	4/20/15	JMM
Fluorene	<10.0	10.0	ug/L	SW846 82700	4/17/15	4/20/15	MML
Phenanthrene	<10.0	10.0	ug/L	SW846 82700	4/17/15	4/20/15	JMM
Anthracene	<10.0	10.0	ug/L	SW846 82700	4/17/15	4/20/15	MML
Fluoranthene	<10.0	10.0	ug/L	SW846 82700	4/17/15	4/20/15	JMM
Pyrene	<10,0	10.0	ug/L	SW846 82700	4/17/15	4/20/15	JMM
Benzo (a) anthracene	<10.0	10.0	ug/L	SW846 82700	4/17/15	4/20/15	MML
Chrysene	<10.0	10.0	ug/L	SW846 82700	4/17/15	4/20/15	JMM
Benzo (b) fluoranthene	<10.0	10.0	ug/L	SW846 82700	4/17/15	4/20/15	JMM
Benzo (k) fluoranthene	<10.0	10,0	ug/L	SW846 82700	4/17/15	4/20/15	JMM

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Pentarch Petroleum

Project: RWQCB Oilfield Ponds - 202015

Work Order No.: 1504168

25938 Gardener

Project #:

Reported: 05/07/2015

Loma Linda, CA 92354

Attention: Steve Filippi

Received: 04/15/2015 12:15

Lab Sample ID: 1504168-01

Collected By: Steve Filippi

Client Sample ID: Pentarch Lease Pond #1

Date Collected: 4/15/2015 10:15:00AM

						Date	Date	
Analyte	Results	PQL	Units	Flag	Method	Prepared	Analyzed	Init.
Semivolatile Organic	Compounds							
Benzo (a) pyrene	<10.0	10.0	ug/L	5	SW846 8270C	4/17/15	4/20/15	JMM
Dibenz (a,h) anthracene	<10.0	10.0	ug/L	5	SW846 8270C	4/17/15	4/20/15	JMM
Benzo (g,h,i) perylene	<10.0	10.0	ug/L	5	SW846 8270C	4/17/15	4/20/15	JMM
Surrogates		% Recovery Recovery	Limits Flag					
Nitrobenzene-d5		29.9 0-95				4/	20/15 14:56	
2-Fluorobiphenyl		34.3 0-92				4/	20/15 14:56	
Terphenyl-dl4		142* 0-100	s-GC			4/	20/15 14:56	
Volatile Organic Comp	oounds							
m,p-Xylene	<5.00	5.00	ug/L	;	SW846 8260B	4/21/15	4/21/15	HLP
Benzene	<5.00	5.00	ug/L	:	SW846 8260B	4/21/15	4/21/15	HLP
Xylenes, total	0.00		ug/L	;	SW846 8260B	4/21/15	4/21/15	HLP
Methyl tert-Butyl Ether	<5.00	5.00	ug/L	:	SW846 8260B	4/21/15	4/21/15	HLP
Ethylbenzene	<5.00	5.00	ug/L	;	SW846 8260B	4/21/15	4/21/15	HLP
Toluene	<5.00	5.00	ug/L	:	SW846 8260B	4/21/15	4/21/15	HLP
o-Xylene	<5.00	5.00	ug/L	;	SW846 8260B	4/21/15	4/21/15	HLP
Surrogates		% Recovery Recovery	Limits Flag					
1.2-Dichloroethane-d4		III 89-165				4	21/15 13:40	
Toluene-d8		104 65-124					21/15 13:40	
4-Bromofluorobenzene		98.7 94-114					21/15 13:40	
4-Bromofluorobenzene		98.7 94-114				4/	/21/15 13:4	.0

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level ": See Case Narrative

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		CHAIN OF CUSTODY
	ZALCO LABORATORIES, INC.	
	4309 Armour Avenue, Bakersfield, CA 93308 (661) 395-0539 FAX (661) 395-3069	www.zalco
	2186 Eastman Avenue, Suite 103, Ventura, CA 93003, (805) 477-0114, Fax (805) 477-0125	25
Contract of the last of the la		ANALYSIS REQUEST

www.zalcolabs.com
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Client PO: Project ID: Quote ID:

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COMPANY	CHOROLL													CANAL.	j	
CONTACT	Steve Fillppi)}				#								el est	Furnaround Time;	
PHONE ((909)440-9158	58	FAX			OF							VIF.	(GO)	Routine (# working days)	×
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	Loma Linda CA 92354	CA 92354				NTA							VI UI	TÜE	EDT	
E-MAIL)antrachpet	pantrachpetroleum@roadrunner.com				NEF							(E(()	BUDINESS	State Form	
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# BV7		SAMPLE DESCRIPTION	DATE	TIME	TYPE *	RWQ								Notes	S	
_	Pentrach	Pentrach Lease Pond #1	4/15/2015	10:15	WW	12 X								ď	7.CC	
Refingu	Refinquíshed By:	Aueduio3		Date		Time		Recei	Received By					Com	Company:	
JJohnson		Zaico labs		04/15/15	3/15	100/		M	A		, (9	700	
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		Mi kara														
NOTE: S.	amples Discar	NOTE: Samples Discarded 30 days after results unless other				. Sam	* Sample Type Key:	(ey:	Aq-Aq	seons: B	-Biosolid	DW-Dr	rinking W	fater; GW-(Aq-Aqueous; BS-Biosolid; DVV-Drinking Water; GW-Groundwater; G-Gas	

Samples Distance 30 days after results unless onter arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

Aq-Aqueous; BS-Biosolid; DW-Drinking Water; GW-Groundwater; G-Gas LPG-Liquid Petroleum Gas; OL-Oll; P-Petroleum; S-Solid/Soll; ST-Storm water WW-Wastewater